



13. (New) The process according to claim 11, wherein cobalt is present in an electrolyte in oxidation state II.

14 (New) The process according to claim 11, wherein cobalt is present in a coordinated form.

15 (New) The process according to claim 14, wherein cobalt is coordinated with a solutant or solvent compound that has a high donor number.

16. (New) The process according to claim 15, wherein the solutant or solvent compound comprises an atom having a high donor number, selected from the group consisting of atoms of the nitrogen column.

17. (New) The process according to claim 11, wherein cobalt is coordinated with a specific ligand.

18 (New) The process according to claim 17, wherein the ligand comprises a function selected from the group consisting of pyridine, nitrile, phosphine, stibine and imine functions.

19/(New) A composition for electrolytic use, comprising a cobalt salt, a zinc salt, a solvent and a cobalt ligand.

20 (New) A process for the electrolytic synthesis of an organozinc compound, comprising the step of subjecting to an electrolysis on an inert cathode a composition comprising a cobalt salt, a zinc salt, a solvent, a cobalt ligand, and an organic halide.

21 (New) A process according to claim 20, wherein the organozinc compound is an aromatic or vinyl organozinc compound.

22 (New) An aromatic organozine compound comprising:

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- an sp2 carbon atom,
- at least one aniline group not more than monosubstituted,
- an SO<sub>2</sub> group, and
- a zinc-bearing function,

wherein the aniline group, the  $SO_2$  group, and the zinc-bearing function are bounded to the sp2 carbon atom.

23 (New) An aromatic organo zinc compound according to claim 22, wherein the sp2 carbon atom is comprised in an aromatic group.